

Agency Roles and Core Competencies

From Earth Science Enterprise (Code Y) Strategic Plan:

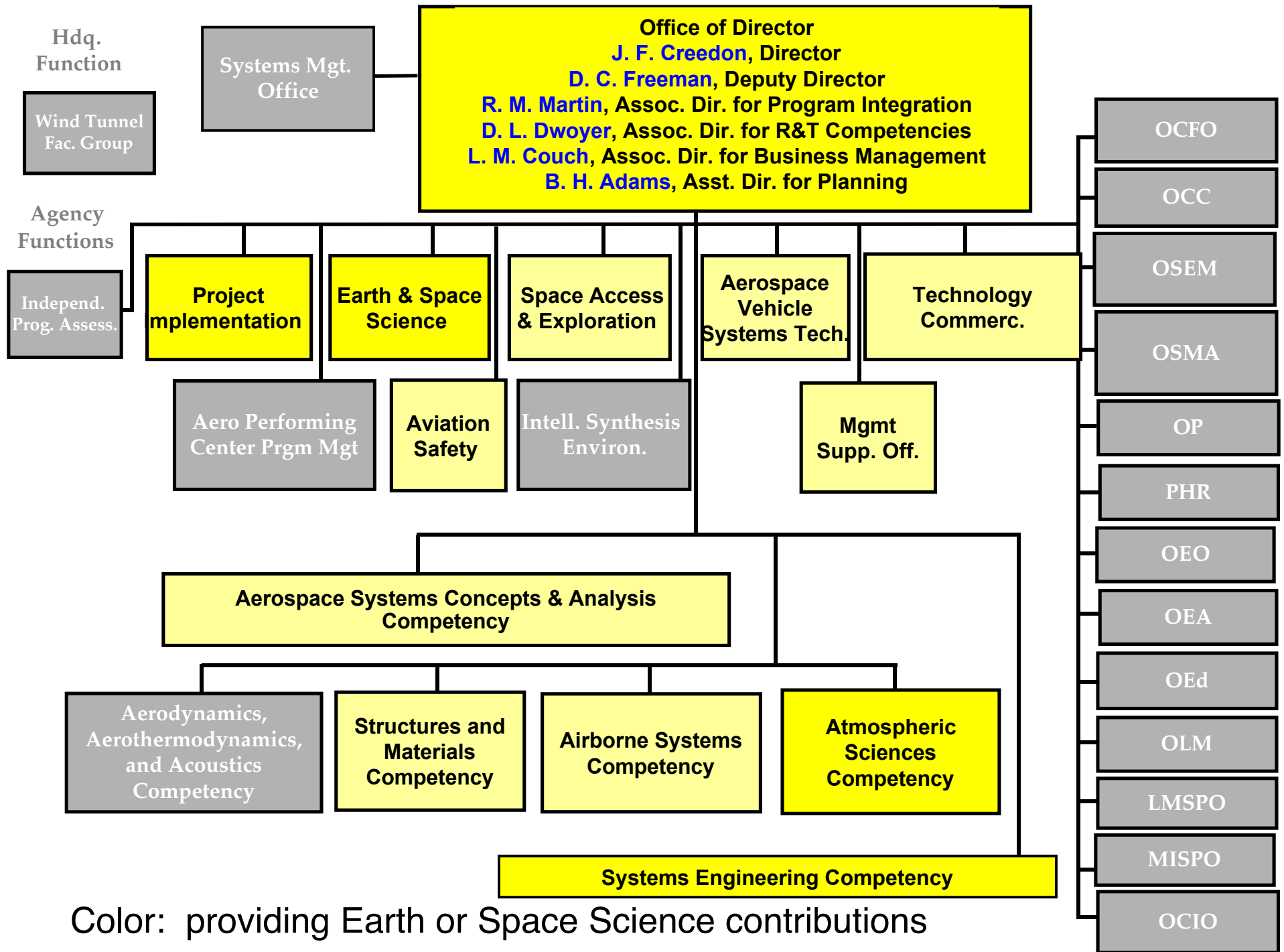
Center Mission: Atmospheric Science

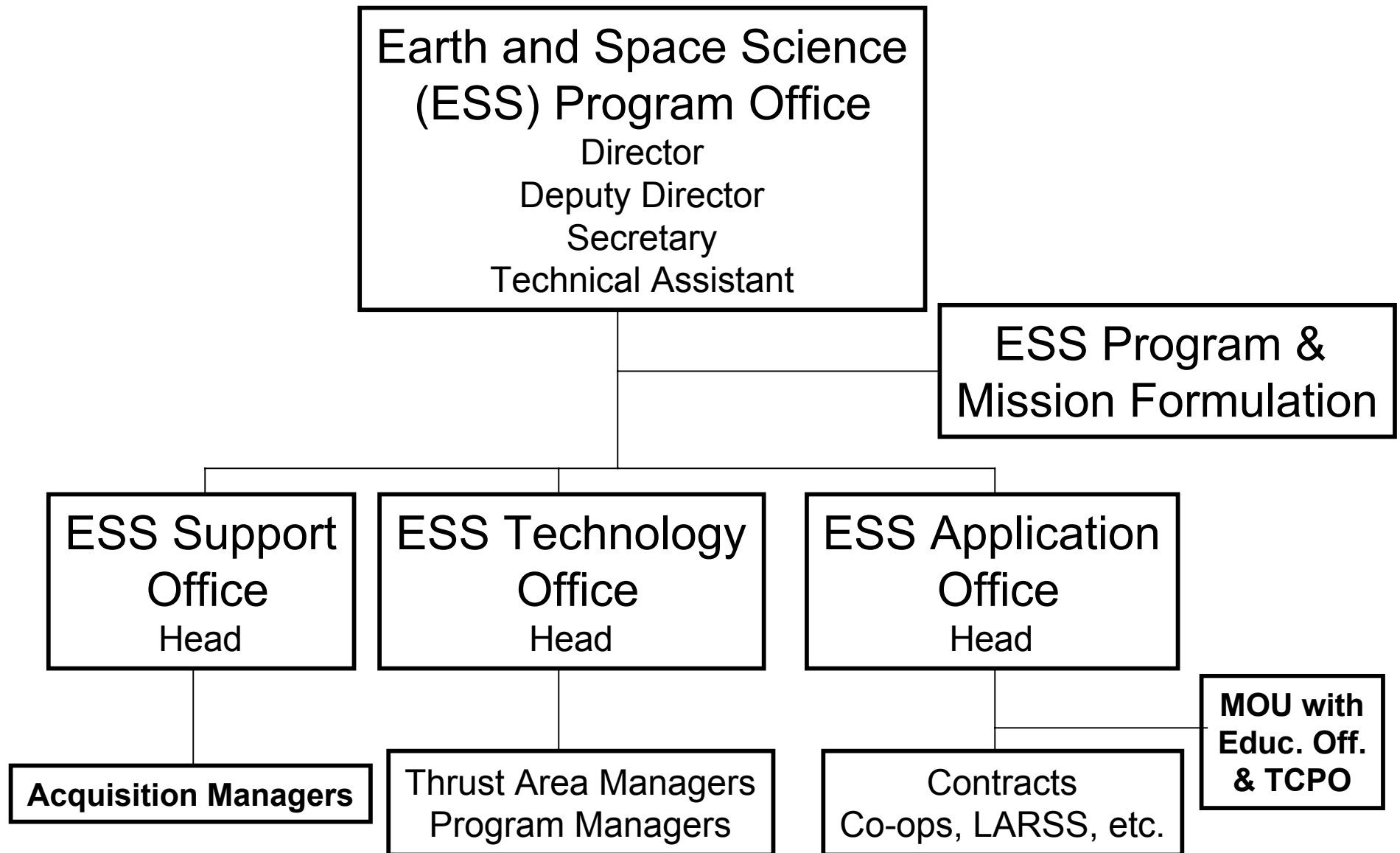
Lead Center: Focused Atmospheric Science Missions

Science Role: Atmospheric aerosols and chemistry,
Earth radiation budget

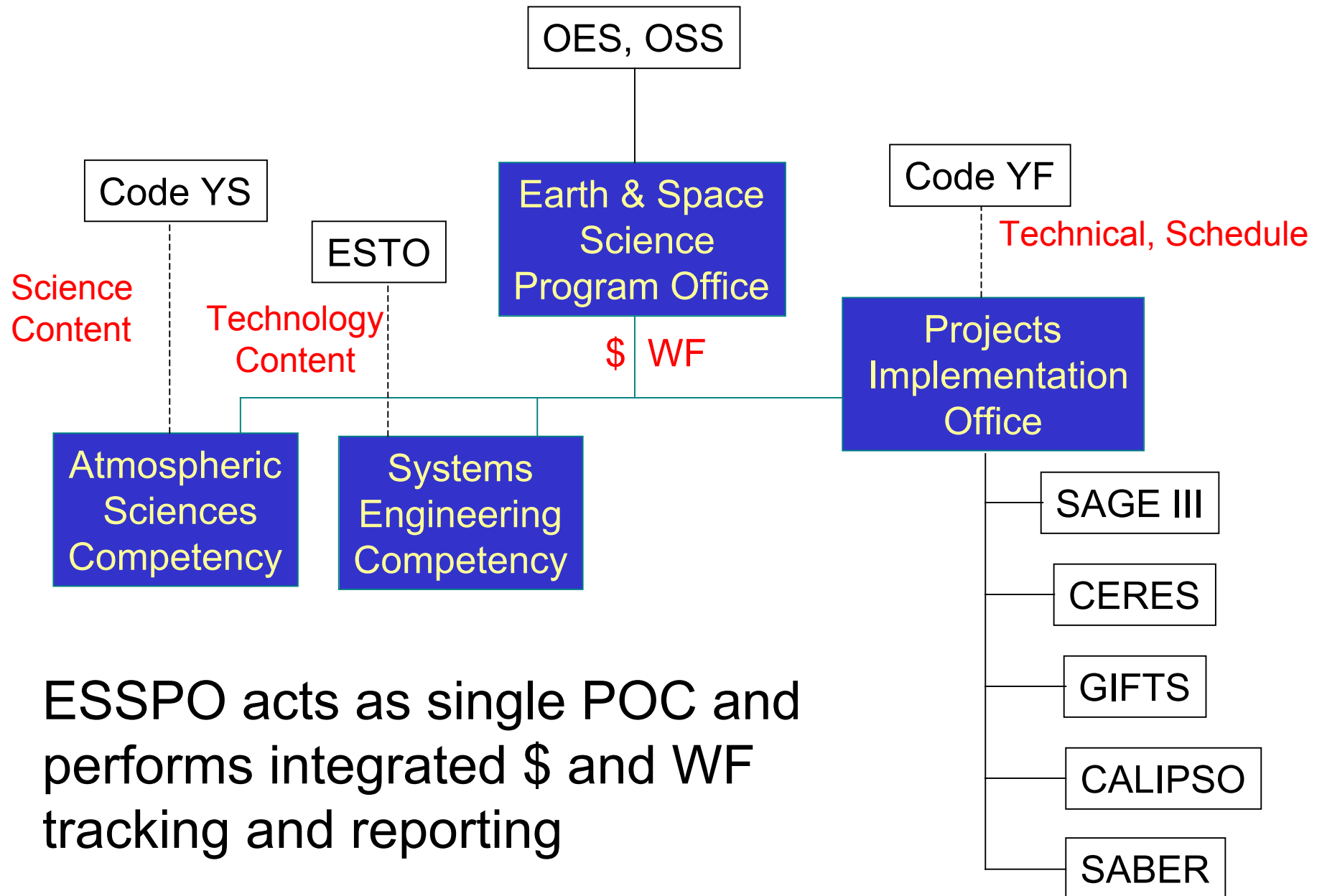
Mission Contribution: Atmospheric science-related
technologies, Engineering and Instrument
Development

Tech. Core Competency for Code R: Atmospheric Sensing

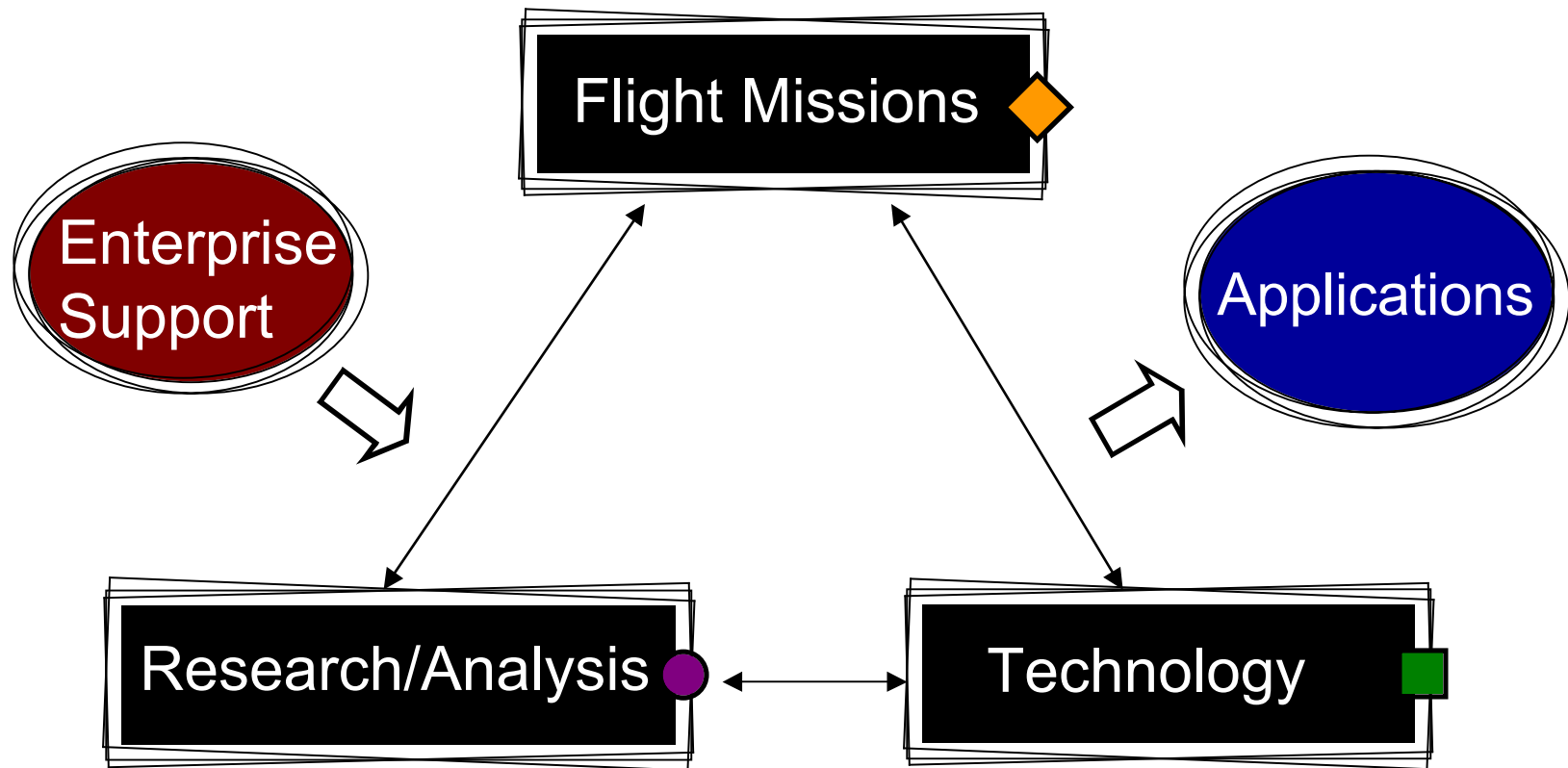




LaRC/HQ Interfaces



ESSP Earth and Space Science Program



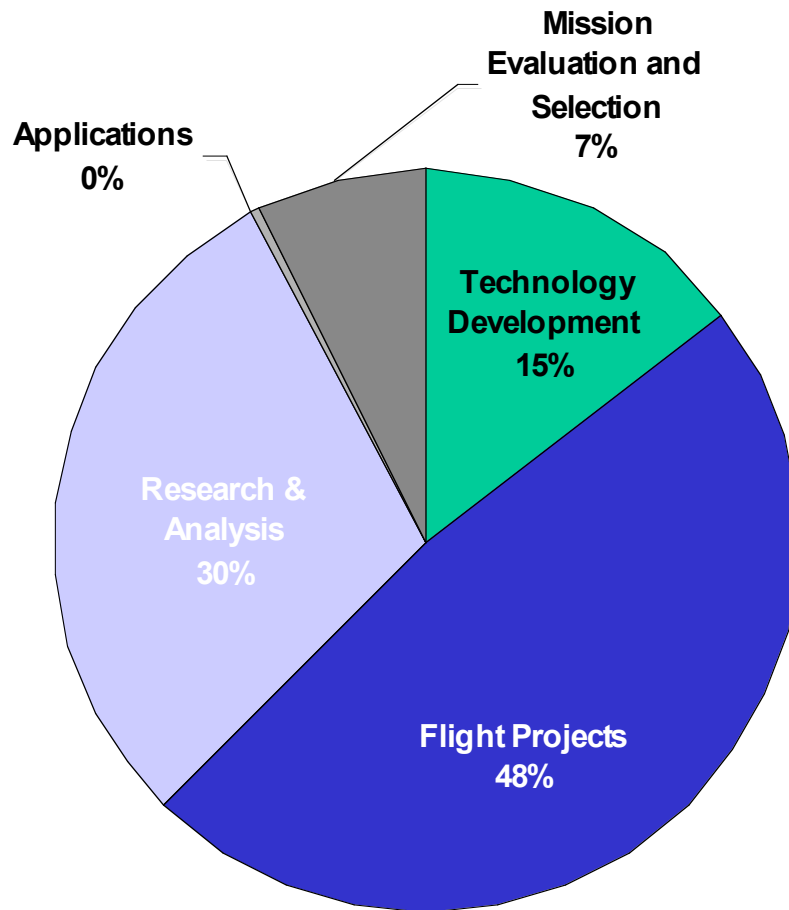
Total FTE's: 455
Total CS: 236
Total Contract: 224

Total Funding: \$127 M
R&D: \$98 M
R&PM: \$25 M
Facilities: \$3.8 M

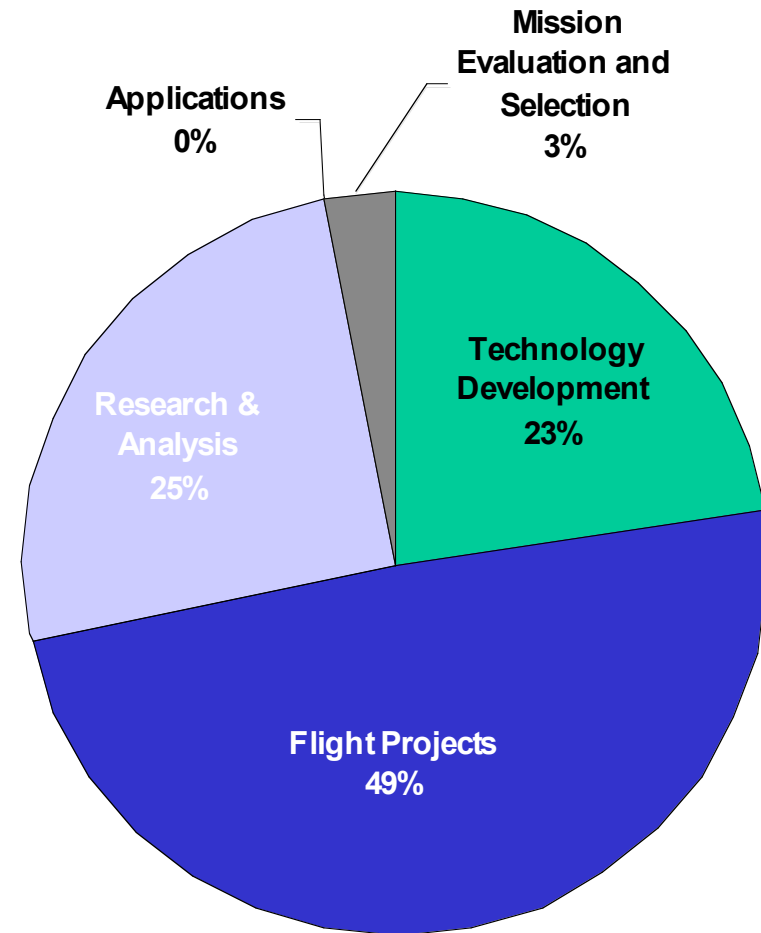
FY '01 ESSP

R&D Budget and Direct CS Workforce

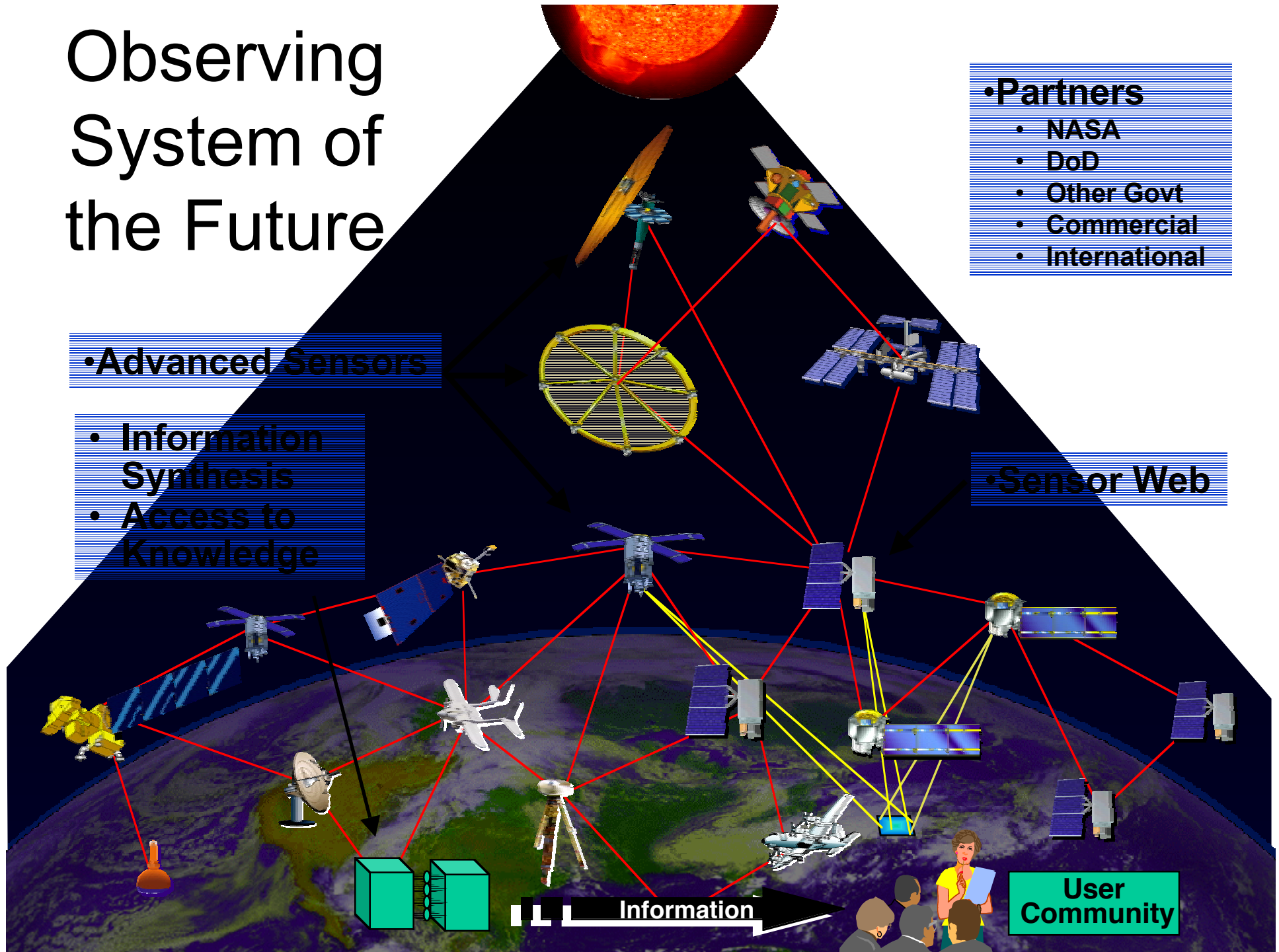
Funding



Direct CS WF



Observing System of the Future





Technology

FY02 Technology Program

Directed Technology Tasks (\$4.2M)

Code Y \$ 2.0M

- 2-um Laser Transmitter
- Diode Development and Testing
- UV Wavelength Conversion

Code-R \$ 2.1M

- CO2 DIAL and Winds Transmitters
- Detector and Receiver Subsystem
- Quantum Mechanical Modeling

Code Y JPL \$ 50K

**EOS-7B Microwave Radiometry
study**

NRA Technology Tasks (\$3.5M)

Code Y Awards

IIP, Far-IR Spectroscopy

IIP, Tropospheric Trace Gas FPI

ATIP, 2-um Laser Transmitter

ATIP, Water Vapor DIAL

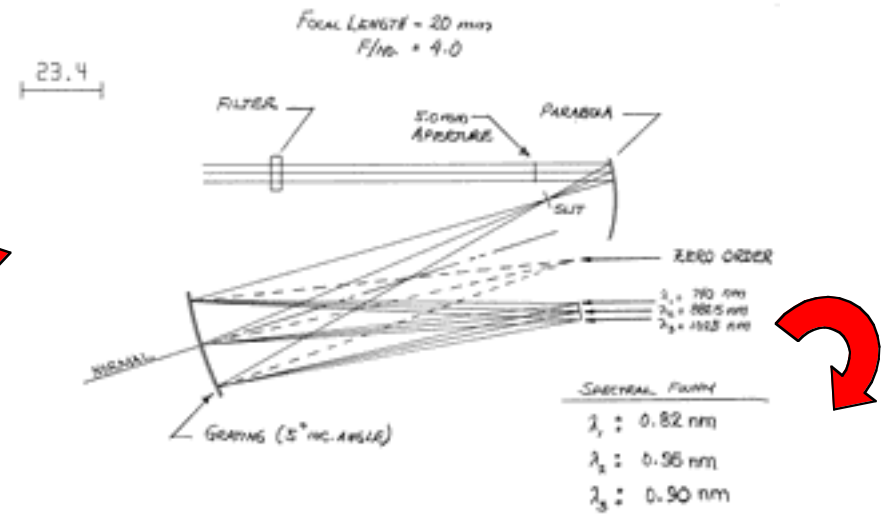
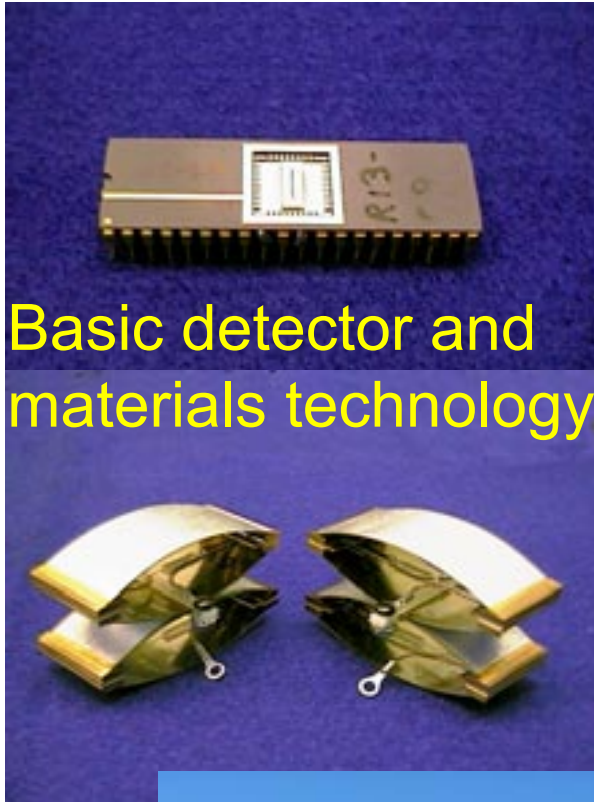
**AIST, Adaptive Data Analysis and
Processing Technology**

Code R Awards

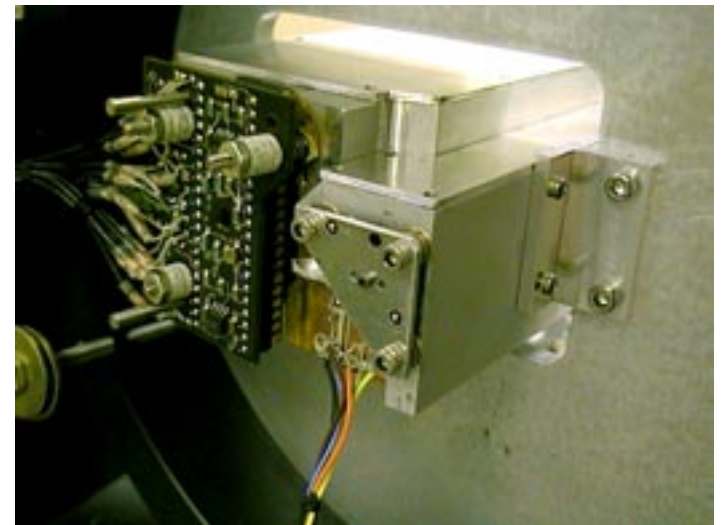
Multi-Use Lidar Transmitter

Electro-optical concepts

Basic detector and materials technology



Field demonstration



Laboratory breadboard

GAMS Airborne Field Evaluation

- Platform, Optical Window, Instrument, Data, & Crew

